

**Claims**

1. A multilayer dose in the melt state (1) having an axis of symmetry for the realization of multilayer objects by compression molding, comprising a first synthetic resin (2) and at least one thin layer of functional resin (3) imprisoned at least largely in said resin (2), characterized in that a part of its surface (5) is concave.  
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2. The dose as claimed in claim 1, comprising an orifice, said concave surface (5) being constituted by a part at least of the inner surface formed by the orifice.  
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3. The dose as claimed in claim 2 in which the orifice forms a passage through the dose.  
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4. The dose as claimed in claim 3, in which the orifice forms a cavity which is open on one face of the dose (1).  
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5. The dose (1) as claimed in any one of the preceding claims, characterized in that the thin functional layer (3) itself forms a multilayer structure comprising a layer of barrier resin imprisoned between two layers of adhesive resin.  
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6. A multilayer object obtained from a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5, characterized in that it contains at least one portion in which the thin functional layer (3) forms a fold.  
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7. The multilayer object as claimed in the preceding claim, having an axis of symmetry, characterized in that the thin functional layer (3) forms a body of revolution centered about the axis of symmetry.  
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8. The multilayer object as claimed in claim 7, characterized in that said body of revolution is open.

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9. The multilayer object as claimed in the preceding claim, characterized in that said body of revolution contains an opening centered on the axis of symmetry.

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10. The multilayer object as claimed in any one of claims 6 to 9, characterized in that it contains an orifice forming a passage through the dose.

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11. The multilayer object as claimed in any one of claims 6 to 9, characterized in that it contains no orifice.

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12. The multilayer object as claimed in claim 7, characterized in that said body of revolution is closed.

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13. A production process for a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5, characterized in that the resins constituting the dose (1) are extruded simultaneously and coaxially, initially in a rectilinear direction, and in that the direction of extrusion is then modified in such a way as to form said concave surface (5).

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14. A device for producing a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5 and using the process as claimed in claim 13, characterized in that it comprises a passage (8) for the linear, simultaneous and coaxial flow of the resins constituting the dose (1) and means (9) for modifying the direction of extrusion in such a way

as to form said concave surface (5), said means (9) being mounted so as to slide inside the passage (8).